385A & 385C

FPGA Accelerator Cards

» 8X Peak TFLOPS

Altera Arria 10 FPGAs include thousands of IEEE754-compliant floating-point DSP cores that deliver up to 1.5 TeraFLOPs, and provide best performance per computing Watt

» 1.8X Bigger FPGA

More FPGA fabric provides more room for additional accelerator functions

» 33% More Memory Bandwidth

8 GBytes DDR3 memory @ 2133 MT/s





Arria 💋 10



Our Latest Generation FPGA Accelerators Offer Drastically Improved Performance



385A New Standard in Price Peformance



4X Network Bandwidth

- » (2) QSFP Ports configurable as:
 - (2) 40GbE QSFP ports (native)
 - (2) 1/10 GbE SFP ports (with adapter)
 - (8) 1/10 GbE ports (with cable)

100GbE / 100GbE / 100GbE BbE / 100GbE / 100GbE / Gb GbE / 100GbE / 100GbE / 10

100GbE / 100GbE / 100GbE 0GbE / 100GbE / 100GbE / G 00GbE / 100GbE / 100GbE /



100 GbE Network Accelerator

10X Network Bandwidth

- » (2) QSFP Ports configurable as:
 - (2) **100**GbE QSFP ports (native)
 - (8) 25 GbE ports (with cable)



OpenCL Programmable



Nallatech leads the industry with OpenCL™ programmable FPGA solutions, opening the performance of FPGA computing to Software Engineers

OpenCL is the first open-source, unified C-based programming model for accelerating algorithms on heterogeneous CPU-GPU FPGA platforms



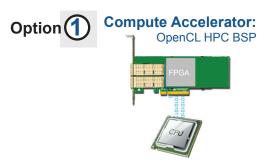
The Altera SDK for OpenCL allows the easy implementation of applications onto FPGAs, providing a much faster and higher level software development flow

Learn more, visit: www.Altera.com/OpenCL



Several Nallatech FPGA
Accelerators are available with
OpenCL Board Support Packages
(BSPs), optimized for Compute
and Network acceleration

Learn more, visit: www.Nallatech.com/OpenCL

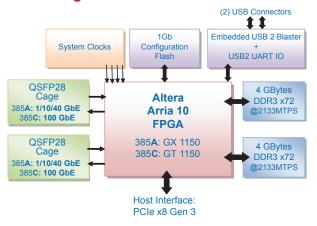


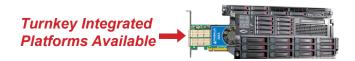


Model Information

woder information		
Product	385A	385C
Part Number	P385A-115-11A-10	P385C-115-11A-10
Configuration	• Arria 10 1150 GX FPGA • Dual 40G QSFP28 Ports	• Arria 10 1150 GT FPGA • Dual 100G QSFP28 Ports
Common Features	2 Banks 4G DDR3 SDRAM @ 2133 MTPS PCle x8 Gen 3 Active Cooling 1/2 Height, 1/2 Length, Single Width PCle Card (NIC Size)	
OpenCL Support	HPC BSP (Co-Processor) Included with Card Purchase MAC BSP (Network Enabled) * Available as an Option	
Options Available	Altera Quartus Software Development Kit Edition w/ OpenCL SDK Altera MAC IP QSFP to SFP Adapter	Altera Quartus Software Development Kit Edition

Block Diagram





International Distributors



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